IRRIGATION REHABILITATION PROGRAM

2009/2010

STATUS REPORT

Prepared by

Government of Alberta
Agriculture and Rural Development

Irrigation Secretariat

Lethbridge, Alberta
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ACKNOWLEDGEMENT

Don Gross of Alberta Agriculture and Rural Development's Water Resources Branch provided much of the information contained in this report as part of Mr. Gross' monitoring of the construction activities of the irrigation districts. We greatly appreciate and acknowledge the significant assistance provided by Mr. Gross in the completion of this report.

LIST of ACRONYMS

IRP – IRRIGATION REHABILITATION PROGRAM
ICW – IRRIGATION CAPITAL WORKS
MW – MAJOR WORKS
PS – PLANNING STUDIES
PVC – POLYVINYLCHLORIDE
09/10 – CONSTRUCTION PERIOD August 1, 2009 to July 31, 2010

ABSTRACT

This annual Irrigation Rehabilitation Program Status Report summarizes the expenditures and status of all IRP projects that were active during the construction period August 1, 2009 to July 31, 2010.

The IRP began in 1969 and is a cost shared program between Alberta Agriculture and Rural Development and Alberta's 13 irrigation districts. Since 1969 funding levels have varied between $600,000 and $33,400,000 per year. The 2009 funding allocations are shown in Table 1.

The provincial/irrigation district cost share ratio has varied since 1969, starting at 86% province - 14 % irrigation district, changing to 80% - 20% in 1994/95 and to 75% - 25% in 1995/96 and remains at that ratio today.

Irrigation Rehabilitation Financing Agreements are prepared annually between the Minister and each irrigation district. Projects must be approved by Irrigation Council prior to any project costs being paid for with cost shared funds, and all eligible project expenditures must be documented by Progress Certificates.

Circumstances may arise that require an irrigation district to change project priorities from time to time. As well, actual costs may differ from estimated costs because of various circumstances, i.e. poor working conditions due to weather, construction cost inflation, etc.

Information contained in this report was gathered from random monitoring (field visits) of project construction sites, records from the Water Resources Branch, the Irrigation Secretariat and information from irrigation district personnel.

The IRP funding is provided to the districts according to an inter-district allocation formula.

TABLES

The following tables summarize the results of each district's activities for 2009/2010.

Table 1: **Irrigation Rehabilitation Program – Funding**

- Lists the IRP funding received by each district together with the district's share.

Table 2: **Irrigation Rehabilitation Program – Project Construction**

- Lists the IRP projects having substantial construction in each district with statistical data for each project.

Table 3: **Irrigation Rehabilitation Program – Summary of Funding and Expenditures**

- Lists each district's **M**ajor **W**orks, **I**rrigation **C**apital **W**orks and **P**lanning **S**tudy expenditures, total funding allocation, and total expenditures. The expenditures are calculated from each district's progress certificates submitted for the construction period.

Table 4: **Irrigation Rehabilitation Program – Summary of Lengths and Type of Rehabilitation**

- Historical summary of total length and type of rehabilitation completed from 1969 to July 31, 2010.

Table 5: **Irrigation Rehabilitation Program – Summary of Rehabilitated Lengths**

- Lists the length of existing distribution systems rehabilitated in each district to July 31, 2009, the length of rehabilitation within the 2009/2010 construction period, and the total length to July 31, 2010.

AETNA IRRIGATION DISTRICT (AID)

During this reporting period the AID expended $14,720 of IRP cost shared funds on one project in the PS category. This was the only project with expenditures in the AID for 2009/2010 and is listed below.

AID IRP Project Construction Summary

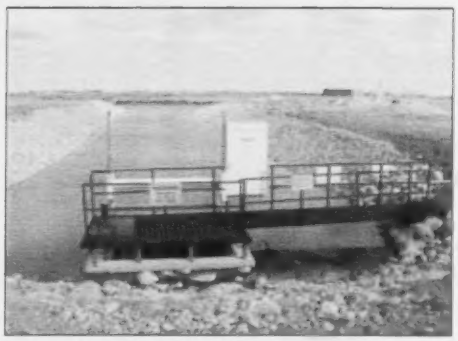
August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2184	PS	AID Comprehensive Planning Study	2009 08	2009 08	100%	100%	planning study		

BOW RIVER IRRIGATION DISTRICT (BRID)

During this reporting period the BRID expended $7,135,206 of IRP cost shared funds on thirty three projects. MW expenditures total $83,348 and ICW and PS expenditures total $7,051,858. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2009/2010 are listed below.

Lost Lake Pumphouse Screens
Project #2187



Main Canal Expanse Coulee Wasteway
Project #2197

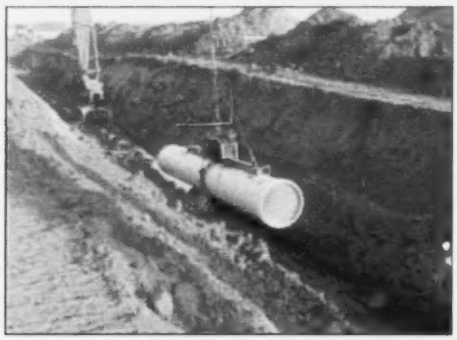
BRID IRP Project Construction Summary

August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2123	ICW	Lateral H Seepage Control	2008 02	2009 10	100%	100%	775		
2139	ICW	Laterals R-3, R-4, R-8	2009 02	2009 09	100%	100%		15600	
2143	ICW	Lateral C-7-1 & C-6	2009 02	2010 01	100%	100%		7347	
2144	ICW	Lomond Lateral km 28.4 to km 32.1	2009 02	2009 11	100%	100%	1044		816
2165	ICW	Laterals R-6 & R-7	2009 02	2009 11	100%	100%		4252	
2166	ICW	Laterals C-8-4	2009 02	2010 03	100%	100%		3518	
2167	ICW	Structure Automation & Upgrades 2009	2009 02	2009 03	100%	100%	11 sites modified or automated		
2185	ICW	Drain H-5	2010 03	2010 03	100%	100%		2131	
2187	ICW	Lost Lake Pumphouse Screens	2009 09	2010 03	100%	100%	replace trash screens		
2189	ICW	Drain G	2010 02	2009 12	100%	100%		240	
2197	ICW	Main Canal Expanse Coulee Wasteway	2010 02	2010 05	100%	100%		152	
2210	ICW	Structure Automation & Flow Measurement 2010	2010 04	2010 06	100%	100%	12 sites automated		
2211	ICW	Reservoir H Main Dam Erosion Protection	2010 05	2010 07	100%	100%	rip-rap erosion control		
							1819	33240	816

EASTERN IRRIGATION DISTRICT (EID)

During this reporting period the EID expended $7,861,233 of IRP cost shared funds on eight projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2009/2010 are listed below.



F Springhill
Project #2172

North Bantry Canal
Project #2174

EID IRP Project Construction Summary
August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2172	ICW	F Springhill	2009 04	2009 12	100%	100%		25307	
2174	ICW	North Bantry Canal Reach 1	2009 02	2009 10	100%	100%	1500		4448

LEAVITT IRRIGATION DISTRICT (LID)

During this reporting period, the LID expended $10,779 of IRP cost shared funds on one project in the PS category. This was the only project with expenditures in the LID for 2009/2010 and is listed below.

LID IRP Project Construction Summary

August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2181	PS	Comprehensive Planning Study	2009 06	2009 08	100%	100%	planning study		

LETHBRIDGE NORTHERN IRRIGATION DISTRICT (LNID)

During this reporting period the LNID expended $4,251,030 of cost shared funds on four projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2009/2010 are listed below.

Lateral F6 & F7
Project #2059

Real-Time Return Flow Upgrades
Project #2150

LNID IRP Project Construction Summary
August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2059	ICW	Lateral F6 & F7 Phase 2	2007 02	2009 09	45%	100%		14790	
2150	ICW	Real-Time Return Flow Upgrades	2008 06	2010 03	100%	100%	5 sites with SCADA links		

MAGRATH IRRIGATION DISTRICT (MID)

During this reporting period the MID expended $964,146 of IRP cost shared funds on three projects in the ICW category. Two projects had significant construction in 2009/2010 and are listed below.

Automated Screening 2010
Project #2204

MID IRP Project Construction Summary
August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
1983	ICW	Highline Pipeline	2004 02	2009 10	20%	100%		1408	
2204	ICW	Automated Screening 2010	2010 02	2010 04	100%	100%		install 7 automated trash screens	

MOUNTAIN VIEW IRRIGATION DISTRICT (MVID)

During this reporting period the MVID expended $10,604 of IRP funds on one project in the PS category. This was the only project with expenditures in the MVID for 2009/2010 and is listed below.

MVID IRP Project Construction Summary
August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2183	PS	MVID Comprehensive Planning Study	2009 08	2009 08	100%	100%	planning study		

RAYMOND IRRIGATION DISTRICT (RID)

During this reporting period the RID expended $995,007 of IRP cost shared funds on five projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Only one project with significant construction in 2009/2010 is listed below.

Welling Lateral 6 & 7
Project #2155

RID IRP Project Construction Summary
August 1, 2009 to July 31, 2010

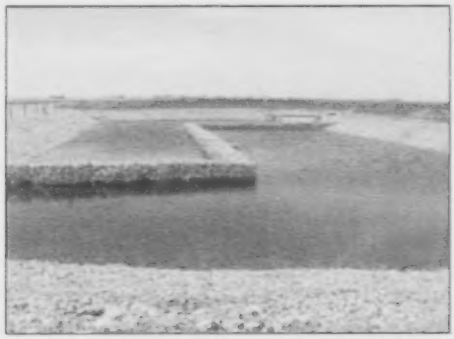
			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2155	ICW	Welling Lateral 6 & 7	2009 02	2009 09	100%	100%		6725	

ROSS CREEK IRRIGATION DISTRICT (RCID)

No funds were expended by the RCID during this reporting period.

St. Mary River Irrigation District (SMRID)

During this reporting period the SMRID expended $12,370,860 of IRP cost shared funds on twenty four projects. MW expenditures total $27,363 and ICW & PS expenditures total $12,343,497. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2009/2010 are listed below.



SMRID Aquatic Weed and Algae Control Project 2010 Project #2192

Main Canal Lateral 4 Project #2109

SMRID IRP Project Construction Summary

August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
1799	ICW	Bow Island Lateral 26 Concrete	1998 06	2008 10	27%	32%		9625	
1862	ICW	North Lateral Gravel Armouring	2001 12	2002 10	9%	79%			1505
1868	ICW	South Medicine Hat Laterals 18, 19 & M	2001 08	2010 04	100%	100%		500	
2051	ICW	West Medicine Hat Lateral 6	2006 05	2007 11	61%	100%		15050	
2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	30%	71%		10254	
2109	ICW	Main Canal Lateral 4	2007 09	2007 11	45%	100%		4505	
2127	ICW	SMRID Open Channel Flow Measurement	2008 02	2010 05	35%	100%	install 3 flow measurement sites		
2147	ICW	Bow Island Lateral 10H-1	2009 02	2009 10	100%	100%		5219	
2151	ICW	Coaldale Sublaterals	2009 02	2010 03	35%	35%		739	
2152	MW	Northeast Reservoir Inlet Gate	2009 02	2010 02	100%	100%	automated overshot gate		
2179	PS	Murray Reservoir - Dam Safety Review	2009 06	2009 09	100%	100%			
2180	PS	Chin Reservoir Flood Handling Study	2009 06	2009 09	100%	100%			
2192	ICW	SMRID Aquatic Weed and Algae Control	2009 11	2010 01	60%	60%	3 of 5 sites installed		
2208	ICW	SCADA Infrastructure Upgrades	2010 04	2010 05	50%	50%	program upgrades		
								45892	1505

TABER IRRIGATION DISTRICT (TID)

During this reporting period the TID expended $1,394,588 of IRP cost shared funds on seven projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2009/2010 are listed below.

Lateral 6 Barnwell (Phase 1)
Project #2114

Screens for Pipelines
Project #2170

TID IRP Project Construction Summary

August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2114	ICW	Lateral 6 Barnwell (Phase 1)	2008 02	2008 04	45%	100%		2966	
2170	ICW	Screens for Pipelines	2010 02	2010 05	100%	100%	install two screens		
2171	ICW	Lateral 20-B2 Taber Pipeline	2009 02	2010 04	100%	100%		146	
2193	ICW	South East Big Bend Pipeline (continuation)	2010 02	2010 02	100%	100%		1302	
								4414	

UNITED IRRIGATION DISTRICT (UID)

During this reporting period the UID expended $981,272 of IRP cost shared funds on ten projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2009/2010 are listed below.

Lateral A1c
Project #2092

Lateral D
Project #2161

UID IRP Project Construction Summary

August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2092	ICW	Lateral A1C	2007 02	2009 08	100%	100%		2671	
2130	ICW	UID Inflow Metering Stations	2008 02	2010 06	50%	100%	2 flow meters installed		
2159	ICW	Lateral B4	2009 02	2009 11	100%	100%		1673	
2161	ICW	Lateral D	2009 02	2010 03	17%	17%			851
2163	ICW	Lateral Da	2009 02	2010 05	100%	100%		1356	
								5700	851

NOTE: * indicates Special Funding used towards this project

WESTERN IRRIGATION DISTRICT (WID)

During this reporting period the WID expended $5,489,672 of IRP cost shared funds on three projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant construction in 2009/2010 is listed below.

Secondary A Canal
Project #2157

WID IRP Project Construction Summary
August 1, 2009 to July 31, 2010

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 09/10	% Completed to July 31/10	Liners (metres)	Pipe (metres)	Earth (metres)
2157	ICW	Secondary A Canal	2009 02	2009 08	100%	100%			11250

TABLES

2009

TABLE 1

IRRIGATION REHABILITATION PROGRAM FUNDING

The following table lists IRP grants received by each district together with each district's share.

IRRIGATION DISTRICT	BASE FUNDING GRANT	BASE FUNDING DISTRICT SHARE	BASE (POOR/FAIR) FUNDING GRANT	BASE (POOR/FAIR) FUNDING DISTRICT SHARE	TOTAL GRANT	TOTAL DISTRICT SHARE	TOTAL PROGRAM
AETNA	$77,659	$25,886	$40,064	$13,355	$117,723	$39,241	$156,964
BOW RIVER	$3,856,654	$1,285,551	$1,433,132	$477,711	$5,289,786	$1,763,262	$7,053,048
EASTERN	$5,683,470	$1,894,490	$1,921,829	$640,610	$7,605,299	$2,535,100	$10,140,399
LEAVITT	$104,179	$34,726	$11,752	$3,917	$115,931	$38,643	$154,574
LETH NORTHERN	$2,654,193	$884,731	$848,768	$282,923	$3,502,961	$1,167,654	$4,670,615
MAGRATH	$298,488	$99,496	$16,611	$5,537	$315,099	$105,033	$420,132
MOUNTAIN VIEW	$90,004	$30,001	$0	$0	$90,004	$30,001	$120,005
RAYMOND	$663,994	$221,331	$128,748	$42,916	$792,742	$264,247	$1,056,989
ROSS CREEK	$27,542	$9,181	$11,030	$3,677	$38,572	$12,858	$51,430
ST MARY RIVER	$6,321,318	$2,107,106	$2,555,368	$851,789	$8,876,686	$2,958,895	$11,835,581
TABER	$1,344,234	$448,078	$227,430	$75,810	$1,571,664	$523,888	$2,095,552
UNITED	$667,245	$222,415	$221,405	$73,802	$888,650	$296,217	$1,184,867
WESTERN	$2,211,019	$737,006	$1,983,863	$661,288	$4,194,882	$1,398,294	$5,593,176
TOTALS	**$23,999,999**	**$7,999,998**	**$9,400,000**	**$3,133,335**	**$33,399,999**	**$11,133,333**	**$44,533,332**

NOTE: Base Funding Grants are cost shared 75% provincial/25% irrigation district

Base Funding Grants are based on the Inter-District Allocation Formula as follows:

- 50% of the funds allocated on the basis of the number of irrigation acres in each district, and
- 50% of the funds allocated on the basis of the infrastructure replacement cost of specified infrastructure in each district

$9.4 million in Base Funding Grants are based on the amount of infrastructure rated in poor to fair condition

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2009 to JULY 31, 2010

TABLE 2

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 09/10	% COMPLETE to July 31/10	LINERS (length in metres)	PIPE (length in metres)	EARTH (length in metres)
AID	2184	PS	AID Comprehensive Planning Study	2009 08	2009 08	100%	100%	planning study		
BRID	2123	ICW	Lateral H (West Block) Seepage Control	2008 02	2009 10	100%	100%	775		
BRID	2139	ICW	Laterals R-3, R-4, R-8 (Hays Block)	2009 02	2009 09	100%	100%		15600	
BRID	2143	ICW	Laterals C-7-1 & C-6 (Hays Block)	2009 02	2010 01	100%	100%		7347	
BRID	2144	ICW	Lomond Lateral km 28.4 to km 32.1	2009 02	2009 11	100%	100%	1044		816
BRID	2165	ICW	Laterals R-6 & R-7 (Hays Block)	2009 02	2009 11	100%	100%		4252	
BRID	2166	ICW	Laterals C-8-4 (Hays Block)	2009 02	2010 03	100%	100%		3518	
BRID	2167	ICW	Structure Automation & Upgrades 2009	2009 02	2009 03	100%	100%	11 sites modified		
BRID	2185	ICW	Drain H-5 (Vauxhall Block)	2010 03	2010 03	100%	100%		2131	
BRID	2187	ICW	Lost Lake Pumphouse Screens	2009 09	2010 03	100%	100%	replace trash screens		
BRID	2189	ICW	Drain G (Vauxhall Block)	2010 02	2009 12	100%	100%		240	
BRID	2197	ICW	Main Canal Expanse Coulee Wasteway	2010 02	2010 05	100%	100%		152	
BRID	2210	ICW	Structure Automation & Flow Measurement	2010 04	2010 06	100%	100%	12 sites automated		
BRID	2211	ICW	Reservoir H Main Dam Erosion Protection	2010 05	2010 07	100%	100%	rip-rap erosion control		
EID	2172	ICW	F Springhill	2009 04	2009 12	100%	100%		25307	
EID	2174	MW	North Bantry Canal Reach 1	2009 02	2009 10	100%	100%	1500		4448
LID	2181	PS	Comprehensive Planning Study	2009 06	2009 08	100%	100%	planning study		
LNID	2059	ICW	Lateral F6 & F7 Phase 2	2007 02	2009 09	45%	100%		14790	
LNID	2150	ICW	Real-Time Return Flow Upgrades	2008 06	2010 03	100%	100%	5 sites with SCADA link		
MID	1983	ICW	Highline Pipeline Phase 4	2004 02	2009 10	20%	100%		1408	
MID	2204	ICW	Automated Screening 2010	2010 02	2010 04	100%	100%	install 7 automated screens		

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2009 to JULY 31, 2010

TABLE 2
2 of 3

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 09/10	% COMPLETE to July 31/10	LINERS	PIPE	EARTH
								(length in metres)		
MVID	2183	PS	MVID Comprehensive Planning Study	2009 08	2009 08	100%	100%	planning study		
RID	2155	ICW	Welling 6 & 7 Pipeline	2009 02	2009 09	100%	100%		6725	
SMRID	1799	ICW	Bow Island Lateral 26 Concrete	1998 06	2008 10	27%	32%		9625	
SMRID	1862	ICW	North Lateral Gravel Armouring	2001 12	2002 10	9%	79%			1505
SMRID	1868	ICW	South Medicine Hat Laterals 18,19 & M	2001 08	2010 04	100%	100%		500	
SMRID	2051	ICW	West Medicine Hat Lateral 6	2006 05	2007 11	61%	100%		15050	
SMRID	2052	ICW	Yellow Lake Lateral 4	2006 02	2007 10	30%	71%		10254	
SMRID	2109	ICW	Main Canal Lateral 4	2007 09	2007 11	45%	100%		4505	
SMRID	2127	ICW	SMRID Open Channel Flow Measurement	2008 02	2010 05	35%	100%	3 flow measurement sites		
SMRID	2147	ICW	Bow Island Lateral 10H-1	2009 02	2009 10	100%	100%		5219	
SMRID	2151	ICW	Coaldale Sublaterals	2009 02	2010 03	35%	35%		739	
SMRID	2152	MW	Northeast Reservoir Inlet Gate	2009 02	2010 02	100%	100%	automated overshot gate		
SMRID	2179	PS	Murray Reservoir- Dam Safety Review	2009 06	2009 09	100%	100%			
SMRID	2180	PS	Chin Reservoir Flood Handling Study	2009 06	2009 09	100%	100%			
SMRID	2192	ICW	SMRID Aquatic Weed and Algae Control	2009 11	2010 01	60%	60%	3 of 5 sites installed		
SMRID	2208	ICW	SCADA Infrastructure Upgrades	2010 04	2010 05	50%	50%	program updates		
TID	2114	ICW	Lateral 6 Barnwell (Phase 1)	2008 02	2008 04	45%	100%		2966	
TID	2170	ICW	Screens for Pipelines	2010 02	2010 05	100%	100%	install two trash screens		
TID	2171	ICW	Lateral 20-B2 Taber Pipeline	2009 02	2010 04	100%	100%		146	
TID	2193	ICW	South East Big Bend Pipeline	2010 02	2010 02	100%	100%		1302	

MID
M

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2009 to JULY 31, 2010

TABLE 2
3 of 3

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 09/10	% COMPLETE to July 31/10	LINERS	PIPE	EARTH
								(length in metres)		
UID	2092	ICW	Lateral A1c	2007 02	2009 08	100%	100%		2671	
UID	2130	ICW	UID Inflow Metering Stations	2008 02	2010 06	50%	100%	2 flow meters		
UID	2159	ICW	Lateral B4	2009 02	2009 11	100%	100%		1673	
UID	2161	ICW	Lateral D	2009 02	2010 03	17%	17%			851
UID	2163	ICW	Lateral Da	2009 02	2010 05	100%	100%		1356	
WID	2157	ICW	Secondary A Canal	2009 02	2009 08	100%	100%			11250
								3319	137476	18870
								TOTAL:	159665	

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF FUNDING AND EXPENDITURES
AUGUST 1, 2009 to JULY 31, 2010

TABLE 3

DISTRICT	2009 TOTAL FUNDING GOV'T & DIST SHARE	09/10 MW EXPENDITURES	09/10 ICW + PS EXPENDITURES	09/10 TOTAL EXPENDITURES
AID	$156,964	$0	$14,720	$14,720
BRID	$7,053,048	$83,348	$7,051,858	$7,135,206
EID	$10,140,399	$0	$7,861,233	$7,861,233
LID	$154,574	$0	$10,779	$10,779
LNID	$4,670,615	$0	$4,251,030	$4,251,030
MID	$420,132	$0	$964,146	$964,146
MVID	$120,005	$0	$10,604	$10,604
RID	$1,056,989	$0	$995,007	$995,007
RCID	$51,430	$0	$0	$0
SMRID	$11,835,581	$27,363	$12,343,497	$12,370,860
TID	$2,095,552	$0	$1,394,588	$1,394,588
UID	$1,184,867	$0	$981,272	$981,272
WID	$5,593,176	$0	$5,489,672	$5,489,672
TOTALS	**$44,533,332**	**$135,856**	**$41,335,607**	**$41,471,463**

NOTE: (1) The total expenditures do not equal the total program funding as construction may occur in a different year (or years) than the year the funds were allocated.

(2) Special Funding is included (if any).

(3) Some districts accrue funds to construct a larger project in the future.

(4) Expenditures are categorized as either:
MW (Major Works) - includes storage reservoirs and dams or conveyance works and seepage control where the design capacity is 6 m^3/s or greater,
ICW (Irrigation Capital Works) - all other irrigation district infrastructure, or
PS (Planning Studies) - studies and digital or photographic imagery used in an irrigation district's overall rehabilitation planning.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF LENGTH and TYPE OF REHABILITATION
1969 to JULY 31, 2010

TABLE 4

	CONCRETE LINING (km)	MEMBRANE LINERS (km)	PIPELINES (km)	EARTH CANALS (km)	TOTALS (km)	OPEN DRAINS (km)
69/80	219.14	36.07	83.41	211.30	549.92	205.85
80/81	20.04	19.50	24.18	73.19	136.91	41.16
81/82	13.12	18.50	30.27	45.78	107.67	72.89
82/83	15.52	29.13	97.63	103.98	246.26	36.02
83/84	7.01	56.63	56.48	106.52	226.64	16.33
84/85	7.05	48.92	53.09	87.02	196.08	26.68
85/86	7.71	28.08	94.39	94.93	225.11	7.05
86/87	4.58	32.44	85.61	75.00	197.63	15.58
87/88	2.79	37.80	49.75	55.45	145.79	12.83
88/89	0.04	43.16	60.68	47.27	151.15	47.08
89/90	0.00	18.96	54.27	49.03	122.26	3.12
90/91	0.00	34.09	64.54	51.49	150.12	4.21
91/92	0.00	15.86	95.59	43.30	154.75	3.18
92/93	0.00	11.20	76.44	28.33	115.97	7.64
93/94	0.00	26.32	78.22	75.29	179.83	8.58
94/95	0.00	23.31	69.97	15.31	108.59	8.44
95/96	0.00	18.63	92.62	23.28	134.53	8.58
96/97	0.00	11.85	138.74	26.24	176.83	0.00
97/98	0.00	23.71	88.52	16.87	129.10	0.29
98/99	0.00	21.68	86.53	16.57	124.78	0.00
99/00	0.00	11.00	116.57	24.76	152.33	4.59
00/01	0.00	11.65	91.22	9.15	112.02	0.15
01/02	0.00	1.37	96.40	14.55	112.32	0.00
02/03	0.00	4.20	129.31	18.56	152.07	1.70
03/04	0.00	6.37	157.23	8.72	172.32	2.45
04/05	0.00	15.74	97.62	12.94	126.30	1.42
05/06	0.00	1.24	117.86	16.02	135.12	1.42
06/07	0.00	0.70	123.11	13.25	137.06	0.00
07/08	0.00	2.91	73.89	7.17	83.97	0.00
08/09	0.00	2.85	89.20	23.06	115.11	0.50
09/10	0.00	3.32	137.48	18.87	159.67	
TOTALS	**297.00**	**617.19**	**2710.82**	**1413.20**	**5038.21**	**537.74**
% of Total	**5.9%**	**12.3%**	**53.8%**	**28%**		

NOTES: (1) Open drains designate earth drains used to channel irrigation spill water: lengths do not include deep interceptors, toe drains, tile drains or tile grid systems.
(2) Drains are not included in TOTALS.
(3) Total length differs from Table 5 due to recurrent rehabilitation.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF REHABILITATED LENGTHS
to JULY 31, 2010

TABLE 5

DISTRICT	TOTAL DISRTICT SYSTEMS (km)	TOTAL SYSTEMS REHABILITATED to JULY 31, 2008 (km)	2009/2010 REHABILITATION (km)	TOTAL to JULY 31, 2010 (km)	% of TOTAL DISTRICT SYSTEM REHABILITATION
AID	37.16	22.34	0	22.32	**60%**
BRID	1003.58	735.77	35.88	756.02	**75%**
EID	1921.90	783.41	31.26	798.67	**42%**
LID	53.44	40.45	0	40.45	**76%**
LNID	744.06	508.65	14.79	523.37	**70%**
MID	100.59	87.87	1.41	88.45	**88%**
MVID	39.66	33.73	0	33.73	**85%**
RID	234.17	208.04	6.73	206.73	**88%**
RCID	26.33	21.69	0	21.69	**82%**
SMRID	1811.85	1139.73	47.40	1182.08	**65%**
TID	333.68	302.79	4.41	304.76	**91%**
UID	236.50	142.95	6.55	149.24	**63%**
WID	1057.80	310.21	11.25	317.94	**30%**
TOTALS	**7600.72**	**4337.63**	**159.68**	**4445.45**	**58%**

NOTES:

(1) Lengths in AID, BRID, EID, LNID, SMRID, UID, & WID exclude Main Canals that were rehabilitated under Alberta Environment's Water Management Systems Improvement Program.

(2) Total Systems Rehabilitated for EID does not include Bank Rebuilding Projects constructed from 1977 to 1982.

(3) Total Systems Rehabilitated for WID does not include "TREE REMOVAL" Projects.

(4) Totals do not include drainage works.

(5) Totals do not include works rehabilitated by a district using its own funds.

(6) Total length differs from Table 4 due to recurrent rehabilitation.